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NOTICE OF ALLOWANCE AND FEE(S) DUE

025191

7590

03/16/2004

BURR & BROWN PO BOX 7068 SYRACUSE, NY 13261-7068 EXAMINER TRA, TUYEN Q

ART UNIT

PAPER NUMBER

2873

DATE MAILED: 03/16/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/749 252	12/27/2000	Yukihisa Takeuchi	789 064	5799

TITLE OF INVENTION: DISPLAY DEVICE AND METHOD FOR PRODUCING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	06/16/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATEN <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHT THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPO PETITION BY THE APPLICANT. SEE 37 CFR 1,313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM TH MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THE STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOV REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (O AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WIL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is n claiming SMALL ENTITY status, check the box below and enclo the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) w your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or <u>Fax</u>					
INSTRUCTIONS: This for appropriate. All further con indicated unless corrected b maintenance fee notification	respondence including the le selow or directed otherwise	smitting the ISSUP Patent, advance ord in Block 1, by (a)	E FEE and PUB ders and notificat) specifying a ne	ELICATION FEE (if requion of maintenance fees we correspondence address;	ired). Blocks 1 through 4 s vill be mailed to the current and/or (b) indicating a sep	hould be completed wh correspondence address arate "FEE ADDRESS"		
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 025191 7590 03/16/2004				papers. Each additionate have its own certificate	Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, m have its own certificate of mailing or transmission.			
BURR & BROW PO BOX 7068 SYRACUSE, NY 1				I hereby certify that the States Postal Service vaddressed to the Mai	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Un States Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsir transmitted to the USPTO, on the date indicated below.			
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						(Signat		
						(D		
APPLICATION NO.	FILING DATE	I	FIRST NAMED IN	VENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/749,252	12/27/2000		Yukihisa Tak	euchi	789_064	5799		
TITLE OF INVENTION: DI	ISPLAY DEVICE AND ME	ETHOD FOR PROI	DUCING THE SA	AME				
APPLN. TYPE	SMALL ENTITY	ISSUE FE	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE		
nonprovisional	NO	\$1330)	\$300	\$300 \$1630			
EXAM	INER	ART UNI	ART UNIT CLASS-SUBCLASS					
TRA, TU	JYEN Q	2873		359-292000		,		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. 3. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.								
3. ASSIGNEE NAME AND PLEASE NOTE: Unless been previously submittee (A) NAME OF ASSIGNI	an assignee is identified beld to the USPTO or is being s	ow, no assignee da submitted under sep	ata will appear or parate cover. Com	** /	ssignee data is only appropri f a substitute for filing an ass UNTRY)	ate when an assignment signment.		
Please check the appropriate	assignee category or catego	ries (will not be pri	inted on the paten	t); 🔾 individual 🗘 c	corporation or other private g	roup entity 🚨 governm		
4a. The following fee(s) are	enclosed:	4b.	. Payment of Fee((s):				
☐ Issue Fee			☐ A check in the	amount of the fee(s) is end	closed.			
☐ Publication Fee				redit card. Form PTO-2038				
Advance Order - # of 0	Copies		The Director Deposit Account	is hereby authorized by ch Number	narge the required fee(s), or (enclose an extra	credit any overpayment copy of this form).		
Director for Patents is reques	sted to apply the Issue Fee ar	nd Publication Fee	(if any) or to re-a	pply any previously paid is	ssue fee to the application ide	entified above.		
(Authorized Signature) NOTE; The Issue Fee and other than the applicant.	Publication Fee (if require	(Date)	cepted from anyo	one in				
interest as shown by the rec	a registered attorney or age cords of the United States Pa	tent and Trademark	k Office.	"				

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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UNITED STATES PATENT AND TRADEMARK OFFICE

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PO BOX 7068 SYRACUSE, 1		7068		ART UNIT	PAPER NUMBER		
•				2873			
				DATE MAILED: 03/16/200	4		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after t mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a ha months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date th determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retriev (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)		
	09/749,252	TAKEUCHI ET AL.	TAKEUCHI ET AL.	
Notice of Allowability	Examiner	Art Unit		
	Tuyen Q Tra	2873		
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commul GHTS. This application is su	this application. If not includ nication will be mailed in due	ed course. THIS	
1. This communication is responsive to <u>12/04/ 03</u> .				
2. The allowed claim(s) is/are <u>1,2,4-31 and 33</u> .				
3. The drawings filed on are accepted by the Examiner	•			
 4. Acknowledgment is made of a claim for foreign priority una) a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application	ı No	ition from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the re	quirements	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF	
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date 0204. Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Review Amendment / Comment or i	in the Office action of e drawings in the front (not the	e back) of	
7. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT R			Note the	
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0: Paper No./Mail Date 0204 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Sur Paper No./N 8), 7. ☐ Examiner's A	ormal Patent Application (PTommary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allo	·	

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Art Unit: 2873

DETAILED ACTION

Drawings

1. The drawings are objected to because the reference number "210" is handwritten. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abevance.

Reason For Allowance

- 2. Claims 1, 2, 4-31 and 33 are allowed.
- 3. Following is an examiner's statement of reasons for allowance:

The prior art taken either singularly or in combination fails to anticipate or fairly suggest the limitations of the independent claim(s), in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper. The prior art fails to teach a combination of all the claimed features as presented in independent claims 1 and 31, which includes (claim 1) an actuator substrate having an actuator element, an optical waveguide plate, a crosspiece intervening between said optical waveguide plate and said actuator substrate surrounding said actuator element, and a picture element assembly joined onto said actuator element wherein light propagates within the optical waveguide plate; (claim 31) distance between the picture element assembly and the optical waveguide plate in the state of no load is not more than 30 % of a distance of separation between the picture element assembly and the optical waveguide plate in a driving state.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuyen Tra whose telephone number is (571) 272-2343. The examiner can normally be reached on Monday to Thursday from 8:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps, can be reached on (571) 272 - 2328. The fax number for this Group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

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February 27, 2004

Hung Xuan Dang

Primary Examiner